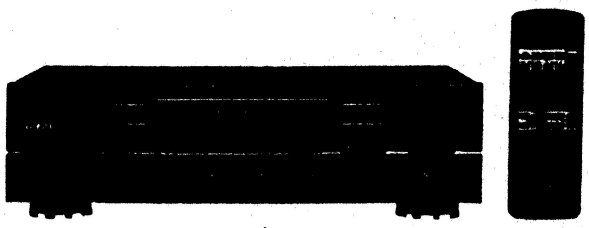
DENON

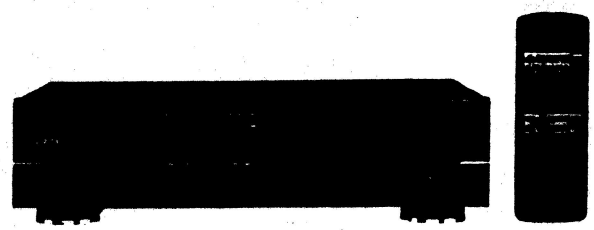
Hi-Fi AM-FM Stereo Reciever

MODEL DRA-565RD
MODEL DRA-365RD

AM-FM STEREO RECIEVER



DRA-565RD



DRA-365RD

NIPPON COLUMBIA CO., LTD.

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

Konformitätserklärung

Die DENON Electronic GmbH
Hatskestraße 32
40880 Ratingen

Erklärt als Hersteller/Importeur, daß das in dieser Bedienungsanleitung beschriebene Gerät den Technischen Vorschriften für Ton- und Fernseh-Rundfunkempfänger nach der Amtsblattverfügung 868/1989 (Amtsblatt des Bundesministers für Post und Telekommunikation vom 31. 8. 1989) entspricht.

PRECAUTIONS FOR INSTALLATION
Install DRA-565/365RD always horizontally. And leave at least 10 cm of space between this unit and other component placed above.

VORKEHRUNGEN FÜR DIE AUF STELLUNG
Der DRA-565/365RD ist stets waagerecht aufzustellen. Außerdem muß ein Mindestabstand von 10 cm zwischen diesem Gerät und der Komponente gewährleistet werden, die darüber gestellt wird.

PRECAUTIONS D'INSTALLATION
Le DRA-565/365RD doit toujours être installé horizontalement. Et laisser au moins un espace de 10 cm entre cet appareil et l'autre composant placé au-dessus.

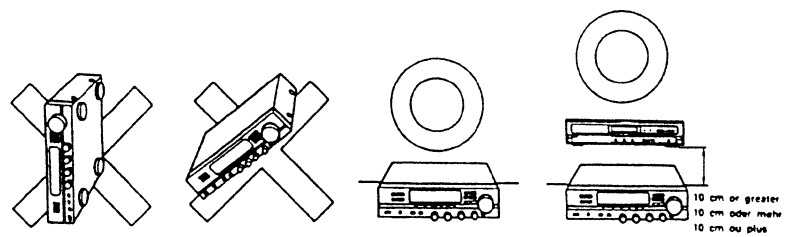
PRECAUZIONI PER L'INSTALLAZIONE
Il DRA-565/365RD viene sempre installato in modo orizzontale. Lasciate uno spazio di almeno 10 cm tra quest'unità e un eventuale componente sowrapposto.

PRECAUCIONES PARA LA INSTALACION
Instale siempre el DRA-565/365RD en posición horizontal. Asegúrese también de dejar un espacio de por lo menos 10 cm entre esta unidad y el componente que sea colocado encima.

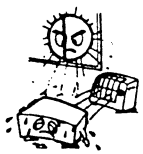
VOORZORGSMAATREGELEN VOOR INSTALLATIE
De DRA-565/365RD altijd horizontaal plaatsen. En minstens 10 cm ruimte laten tussen dit toestel en het andere komponent dat u erboven plaatst.

FÖRBEREDELSER FÖR INSTALLATION
Installera alltid DRA-565/365RD horisontellt. Lämna åtminstone 10 cm mellan denna apparat och en annan komponent som placeras ovanpå.

PRECAUÇÕES PARA A INSTALAÇÃO
Instale sempre horizontalmente o DRA-565/365RD. E deixe pelo menos 10 cm de espaço entre esta unidade e o outro componente colocado acima.



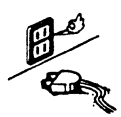
NOTE ON USE/HINWEISE ZUM GEBRAUCH/OBSERVATIONS RELATIVES A L'UTILISATION NOTE SULL'USO/NOTAS SOBRE EL USO/ALVORENS TE GEBRUIKEN/OBSERVERA OBSERVAÇÕES QUANTO AO USO



- Avoid high temperatures
  Allow for sufficient heat dispersion when installed on a rack.
- Vermeiden Sie hohe Temperaturen
  Beachten Sie, daß eine ausreichend Luftzirkulation gewährleistet wird, wenn das Gerät auf ein Regal gestellt wird.
- Eviter des températures élevées
  Tenir compte d'une dispersion de chaleur suffisante lors de l'installation sur une étagère.
- Evitate di esporre l'unità a temperature alte.
  Assicuratevi che ci sia un'adeguata dispersione del calore quando installate l'unità in un mobile per componenti audio.
- Evite altas temperaturas
  Permite la suficiente dispersión del calor cuando está instalado en la consola.
- Vermijd hoge temperaturen.
  Zorg voor een degelijk hittedvroer indien het apparat op een rek wordt geplaatst.
- Undvik höga temperaturer.
  Se till att det finns möjlighet till god värmeavledning vid montering i ett rack.
- Evite temperaturas altas
  Conceda suficiente dispersão de calor quando o equipamento for instalado numa prateleira.

- Handle the power cord carefully.
  Hold the plug when unplugging the cord.
- Gehen Sie vorsichtig mit dem Netzkabel um.
  Halten Sie das Kabel am Stecker, wenn Sie den Stecker herausziehen.
- Manipuler le cordon d'alimentation avec précaution.
  Tenir la prise lors du débranchement du cordon.
- Maneggiate il filo di alimentazione con cura.
  Agite per la spina quando scollegate il cavo dalla presa.
- Maneje el cordón de energía con cuidado.
  Sostenga el enchufe cuando desconecte el cordón de energía.
- Hanteer het netsnoer voorzichtig.
  Houd het snoer bij de stekker vast wanneer deze moet worden aan- of losgekoppeld.
- Hantera nätkabeln varsamt.
  Håll i kabeln när den kopplas från eluttaget.
- Manuseie com cuidado o fio condutor de energia.
  Segure a tomada ao desconectar o fio.

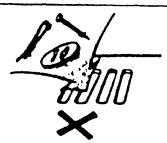
- Keep the set free from moisture, water, and dust.
- Halten Sie das Gerät von Feuchtigkeit, Wasser und Staub fern.
- Protéger l'appareil contre l'humidité, l'eau et la poussière.
- Tenete l'unità lontana dall'umidità, dall'acqua e dalla polvere.
- Mantenga el equipo libre de humedad, agua y polvo.
- Laat geen vochtigheid, water of stof in het apparaat binnendringen.
- Undvik inte apparaten för fukt, vatten och damm.
- Mantenha o aparelho livre de qualquer umidade, água ou poeira.



- Unplug the power cord when not using the set for long periods of time.
- Wenn das Gerät eine längere Zeit nicht verwendet werden soll, trennen Sie das Netzkabel vom Netzstecker.
- Débrancher le cordon d'alimentation lorsque l'appareil n'est pas utilisé pendant de longues périodes.
- Disinnestate il filo di alimentazione quando avete l'intenzione di non usare il filo di alimentazione per un lunga periodo di tempo.
- Desconecte el cordón de energía cuando no utilice el equipo por mucho tiempo.
- Neem altijd het netsnoer uit het stopcontakt wanneer het apparaat gedurende een lange periode niet wordt gebruikt.
- Koppla ur nätkabeln om apparaten inte kommer att användas i lång tid.
- Desligue o fio condutor da força quando o aparelho não tiver que ser usado por um longo período.

*(For sets with ventilation holes)

- Do not obstruct the ventilation holes.
- Die Belüftungsöffnungen dürfen nicht verdeckt werden.
- Ne pas obstruer les trous d'aération.
- Non coprire i fori di ventilazione.
- No obstruya los orificios de ventilación.
- De ventilatieopeningen mogen niet worden beblokkeerd.
- Täpp inte till ventilationsöppningarna.
- Não obstrua os orifícios de ventilação.

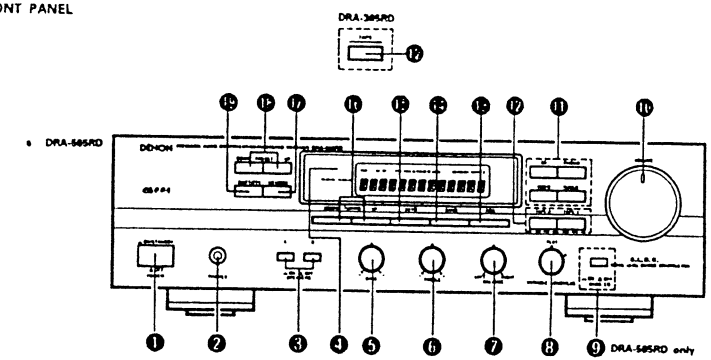


- Do not let foreign objects in the set.
- Keine fremden Gegenstände in das Gerät kommen lassen.
- Ne pas laisser des objets étrangers dans l'appareil.
- E' importante che nessun oggetto è inserito all'interno dell'unità.
- No deje objetos extraños dentro del equipo.
- Laat geen vreemde voorwerpen in de dit apparaat vallen.
- Se till att främmande föremål inte tränger in i apparaten.
- Não deixe objetos estranhos no aparelho.

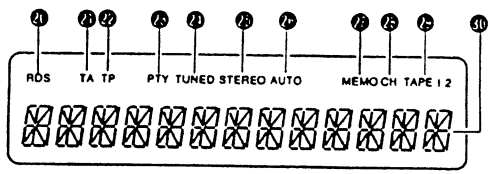
- Do not let insecticides, benzene, and thinner come in contact with the set.
- Lassen Sie das Gerät nicht mit Insektiziden, Benzin oder Verdünnungsmitteln in Berührung kommen.
- Ne pas mettre en contact des insecticides, du benzène et un diluent avec l'appareil.
- Assicuratevi che l'unità non venga in contatto con insetticidi, benzolo e solventi.
- No permita el contacto de insecticidas, gasolina y diluyentes con el equipo.
- Laat geen insektenverdelgende middelen, benzine of verhardunner met dit apparaat in kontakt komen.
- Se till att ett inte insektsmedel på sprayburk, bensen och thinner kommer i kontakt med apparatens höljе.
- Não permita que insecticidas, benzina e diselvente entrem em contacto com o aparelho.

- Never disassemble or modify the set in any way.
- Versuchen Sie niemals das Gerät auseinander zu nehmen oder auf jegliche Art zu verändern.
- Ne jamais démonter ou modifier l'appareil d'une manière ou d'une autre.
- Non smontate mai, né modificate l'unità in nessun modo.
- Nunca desarme o modifique el equipo de ninguna manera.
- Raad dit apparaat demonteren of op andere wijze modificëren.
- Ta inte isär apparaten och försök inte bygga om den.
- Nunca desmonte ou modifique o aparelho de alguma forma.

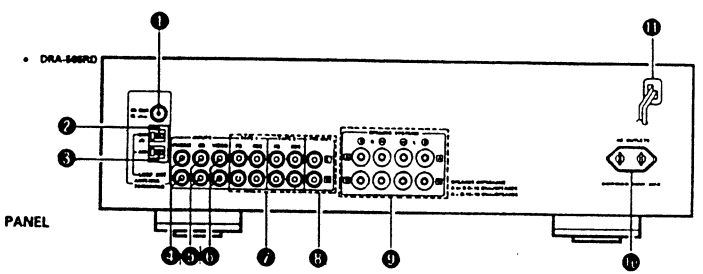
FRONT PANEL

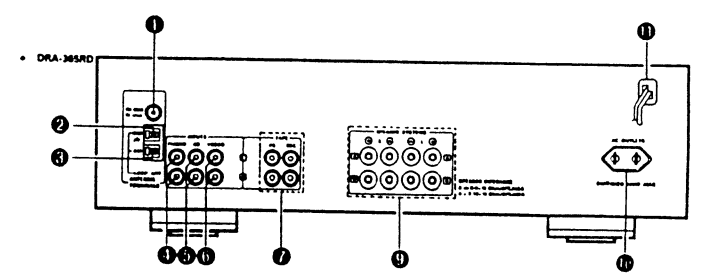


DISPLAY



REAR PANEL





Please check the following items are included with the main unit in the carton:

(1) Operating Instructions 1
(2) AM Loop Antenna 1
(3) FM Antenna 1
(4) Remote Control RC-174 1
(5) Batteries R6 (AA) 2

Bitte überprüfen Sie, ob die folgenden Teile vollständig in der Verpackung enthalten sind:

(1) Bedienungsanleitung 1
(2) AM-Rahmenantenne 1
(3) UKW-Antenne 1
(4) Fernbedienungsgerät RC-174 1
(5) Trockenzelle-Batterie R6 (AA) 2

Veuillez contrôler que les articles suivants sont bien joints à l'appareil principal dans le carton:

(1) Mode d'emploi 1
(2) Antenne-cadre AM 1
(3) Antenne FM 1
(4) Télécommande RC-174 1
(5) Piles de format R6 (AA) 2

Controllare che le parti seguenti si trovino imballate con l'apparecchio nella scatola di spedizione.

(1) Istruzioni per l'uso 1
(2) Antenna AM a telaio 1
(3) Antenna FM 1
(4) Telecomando RC-174 1
(5) Batteria a secco R6 (AA) 2

Por favor verifique que los siguientes artículos son empacados en la caja pero separados de la unidad principal.

(1) Instrucciones de operacion 1
(2) Antena AM de cuadro 1
(3) Antena de FM 1
(4) Unidad de control remoto RC-174 1
(5) Pilas secas R6 (AA) 2

Kontroleer of de volgende accessoires bij het hoofdtoestel in de doos zijn verpakt:

(1) Gebruiksaanwijzing 1
(2) AM-raamantenne 1
(3) FM-antenne 1
(4) Afstandsbediening RC-174 1
(5) R6 (AA) droge cel batterij 2

Kontrollera att följande tillbehör har packats ner i kartongen tillsammans med huvudenheten.

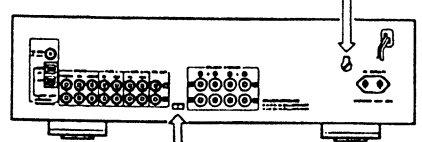
(1) Bruksanvisning 1
(2) Ramantenn för AM-bruk 1
(3) FM-antenn 1
(4) Fjärrkontroll RC-174 1
(5) R6 (AA) torrbatteri 2

Certifique-se de que as seguintes peças estão incluidas na embalagem fora da unidade principal:

(1) Instruções de operação 1
(2) Antena de quadro AM 1
(3) Antena FM 1
(4) Controlo remoto RC-174 1
(5) Pilhas R6 (AA) 2

For multi-voltage models only:

- The desired voltage may be set with the VOLTAGE SELECTOR KNOB on the rear panel, using a screwdriver.
- Do not twist the VOLTAGE SELECTOR KNOB with excessive force as this may cause damage.
- If the VOLTAGE SELECTOR KNOB does not turn smoothly, please contact a qualified serviceman.



(The voltage is set to 220 V upon shipment from the factory.)

FREQUENCY STEP (Frequency step switch)
Set the FREQUENCY STEP switch as described below.

- In the U.S.A. and Canada – set the switch to 100 kHz / 10 kHz side.
  With this setting, the frequency varies in 100 kHz steps in the range of 87.5 to 108.0 MHz (FM) and in 10 kHz steps in 520 to 1710 kHz (AM).
- Elsewhere – set the switch to 50 kHz / 9 kHz side.
  With this setting, the frequency varies in 50 kHz steps in the range of 87.50 to 108.0 MHz (FM) and in 9 kHz steps in 522 to 1611 kHz (AM).

DESIGNATIONS AND FUNCTIONS OF PANEL CONTROLS (Refer to Page 5.)

FRONT PANEL

❶ **POWER (Power ON-STANDBY/OFF Switch)**
This switch turns the unit ON or OFF. There is a delay of approximately 3 seconds before the unit will operate after this power switch is turned ON. If the unit is turned OFF from the remote control, the unit will be in the STANDBY mode. When in the STANDBY mode, the unit can be turned ON with the power button on the remote control. If the unit will not be used for extended period, be sure to turn the unit OFF from the front panel power switch.
NOTE: This unit includes a STANDBY protection feature. This feature is designed to prevent accidental turn-on from the STANDBY mode in the event of a power failure. Should AC power be disconnected and then reconnected when the unit is in STANDBY mode, the unit will return to the STANDBY mode.
To turn the unit ON from the STANDBY mode without the remote control,, operate the front panel power switch four times. The unit will then operate normally.

❷ **PHONES (Headphones jack)**
Connect a pair of headphones (sold separately) to this jack for private listening.

❸ **SPEAKERS (Speaker selector switches)**
These switches are used to select speaker system A and B. No sound is heard through the speakers when both switches are reset to the (⏝) position.

❹ **REMOTE SENSOR (Remote control sensor)**
This sensor receives the infra-red light transmitted from the wireless remote control unit.
For remote control, point the wireless remote control unit towards the sensor.

❺ **BASS (Bass control)**
Use this control to adjust the low-range response.
When the control is set to the center position, the frequency characteristic curve (below 1,000 Hz) is flat. Turn the control clockwise to increase the bass response and counter-clockwise to decrease it.

❻ **TREBLE (Treble control)**
Use this control to adjust the high-range response.
When the control is set to the center position, the frequency characteristic curve (above 1,000 Hz) is flat. Turn the control clockwise to increase the treble response and counter-clockwise to decrease it.

❼ **BALANCE (Balance control)**
Use this control to balance the volume levels between left and right channels. The volume levels in both channels are equal when the control is set to the center position.

❽ **VARIABLE LOUDNESS (Loudness control)**
At low volumes, the human ear is less sensitive to low (BASS) and high (TREBLE) frequencies. Use this control to compensate for this deficiency when listening at low volume levels. Turn this control counter-clockwise until a natural balance of bass and treble sound has been restored.

❾ **BASS EQ (DRA-565RD only)**
Press this button to switch the BASS EQ ON (⏜) for emphasis of bass sounds.
Use in conjunction with the bass adjustment of the tone control will provide further emphasis of bass sounds. Set this switch to OFF (⏝) when you wish to listen with a normal setting condition.

❿ **VOLUME (Volume control)**
This knob is used to adjust the volume level of both channels.
Turn the knob clockwise to raise the volume and counter-clockwise to lower it.

⓫ **Input selector (Input selector buttons)**
These buttons are used to select the audio input source.
- PHONO: Press to play a record on a record player connected to the PHONO input jacks.
- CD: Press to listen to a compact disc player or another component connected to the CD input jacks.
- TUNER: Press to listen to FM or AM programs.
- VIDEO: Use when playing back the audio from a HI-Fi video, video disc player or other component connected to the VIDEO terminal.

⓬ • **Tape selector (Tape selector/monitor buttons) (DRA-565RD)**
TAPE-1: Press this button once, TAPE-1 indicator will light up and then you can play tape source on TAPE-1 terminal.
In this state you can copy TAPE-1 source to TAPE-2 terminal.
TAPE-2: Press this button once, TAPE-2 indicator will light up and then you can play tape or video source of TAPE-2 terminal.
Press again the button currently accessed, to play sources selected by input selector ⓫, indicator goes out.
• **TAPE (Tape monitor button) (DRA-365RD)**
Press this button once, TAPE indicator will light up and then you can play tape source on the TAPE terminal.
Press again the button currently accessed, to play sources selected by input selector ⓫, indicator goes out.

⓭ **RDS button**
This button is used for the RDS search (refer to page 12) and PTY search (refer to page 12), and TP search (refer to page 12) operations, and to input the station name (refer to page 12, 13).

⓮ **BAND (Band selector switch)**
Press this switch to select the FM or AM (MW) band.

⓯ **AUTO (Tuning mode button)**
This switches between auto and manual tuning.
Auto tuning: When the UP button is pressed, the radio is tuned automatically to a higher frequency. Press the DOWN button to tune to a lower frequency. Use this position to eliminate noise when no signals or weak signals are being received.
Manual tuning: In this position, the radio can be tuned manually. Reception is automatically monaural when in the manual mode.

⓰ **TUNING (Tuning buttons)**
Use these to change the received frequency to a higher frequency (UP) or a lower frequency (DOWN).
When writing station names, use these buttons to select the letters. (Refer to Page 13.)

⓱ **MEMORY (Memory button)**
This switch is used to store the desired radio station to a memory.
- **Presetting stations**
After pressing the MEMORY button, press the SHIFT/PTY button to select the memory block, A to E. Now use the PRESET UP and DOWN buttons to specify the preset channel number. Press the MEMORY button again to store the station at the specified preset channel.

⓲ **Preset (Preset station buttons)**
These buttons are used for storing stations or recalling stations which have been preset. Using the SHIFT button you can preset a total of 40 FM or AM stations into preset channels.
Once a radio has been memorized, the same station can later be tuned in instantly simply by recalling the corresponding preset channel with PRESET UP or DOWN button.

⓳ • **SHIFT/PTY button**
Use this button to select the memory blocks, A (1 to 8), B (1 to 8), C (1 to 8), D (1 to 8) or E (1 to 8).
For PTY search, use this button to select the program type.
When writing station names, use this button to set the writing position.

DISPLAY

⓴ **RDS indicator**
This lights when receiving RDS broadcasts, and flashes during the RDS search operations.

㉑ **TA indicator**
This lights when receiving traffic announcements.

㉒ **TP indicator**
This flashes during the TP search operation and lights when TP stations are tuned in.

㉓ **PTY indicator**
This flashes during the PTY (Programme type) search operation.

㉔ **TUNED indicator**
This lights when a station is properly tuned in.

㉕ **STEREO indicator**
This lights when receiving stereo broadcasts. It remains off when receiving AM broadcasts.

㉖ **AUTO indicator**
This indicates the tuning mode. It lights in the auto mode, and remains off in the manual mode.
NOTE:
- TP (Traffic Programme)
Stations scheduled to broadcast traffic programmes
- TA (Traffic Announcement)
Traffic information broadcasts

㉗ **MEMO indicator**
This indicator lights for approximately 10 seconds when the MEMORY button has been pressed and a station can be stored on a PRESET CHANNEL button.
This flashes continuously during the auto memory operation.

㉘ **CH indicator**
This lights when the preset channel number and shift mode (A, B, C, D or E) are displayed.

㉙ • **TAPE-1/TAPE-2 indicator (DRA-565RD)**
The TAPE-1 indicator lights when the TAPE-1 source is selected with the tape selector buttons. The TAPE-2 indicator lights when the TAPE-2 source is selected.
• **TAPE indicator (DRA-365RD)**
The TAPE indicator lights when the TAPE source is selected with the tape selector buttons.

㉚ **Multi function display**
This displays the frequency, station name, programme type, etc.

REAR PANEL

❶ **FM ANT (FM antenna terminals)**
75-ohm coaxial cable can be connected to this terminal. For antenna connecting procedure, see the ANTENNA INSTALLATION.

❷ **GND (Grounding terminal)**
The grounding wire of the turntable is connected here.
- Hum or noise may be generated if the grounding wire is not connected.

❸ **AM ANT (AM antenna terminals)**
Connect the attached AM loop antenna. (Refer to page 10 for connections).
Connect to this terminal when a medium wave outdoor antenna is used.

❹ **PHONO (Phono input terminals)**
The output cord of the turntable is connected here.
Since the input sensitivity of "PHONO" is extremely high, do not use the unit without the input pin cord. If used without this cord, the speakers may generate hum.

❺ **CD**
The output cord of the CD player is connected here.

❻ **VIDEO**
A VIDEO, such as a VCR or Video Disc may be connected here.

❼ • **TAPE-1, TAPE-2 (Tape deck playback/recording terminal) (DRA-565RD)**
Two tape decks or tape deck can be connected to these jacks for full-fledged playback, recording and tape dubbing operation.
• **TAPE (DRA-365RD)**
Tape decks can be connected for full use including playing or copying.

❽ **PRE-OUT (DRA-565RD only)**
Output signals for power amplifiers are sent from these jacks.
The rated output is 2 volts.

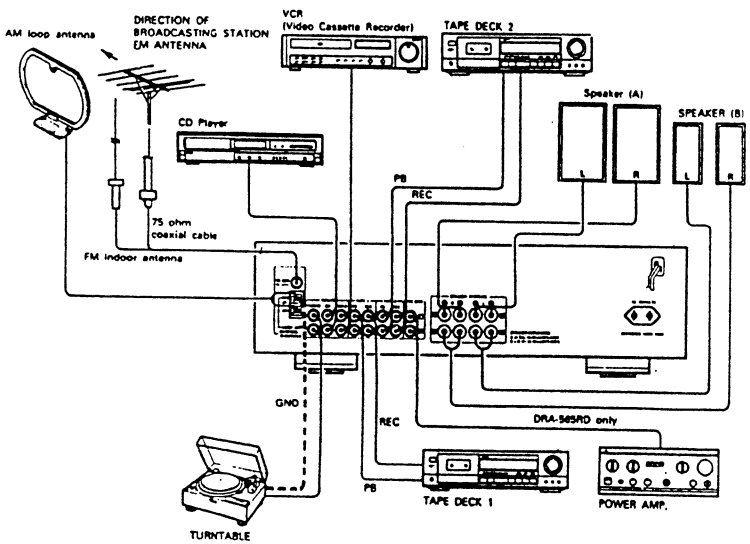
❾ **SPEAKER SYSTEMS (Speaker terminals)**
Two pairs of speakers A and B can be connected to these terminals.

❿ **AC OUTLET (AC power outlets)**
This AC outlet is controlled by the power switch and Remote controlunit (DRA-565RD), controlled by the power switch (DRA-365RD).

⓫ **AC CORD (Power cord)**
Connect this cord into the wall outlet.

NOTES
- This receiver has a full back-up system. When the power is turned on, the INPUT SELECTOR buttons are set to the last mode set before the power was turned off.
- When using this receiver in close proximity to video equipment (TV, VCR, VDP, etc.), noise may be generated in AM broadcasts. To avoid this, keep the receiver as far away from other video components as possible, or place the AM loop antenna where noise is reduced. If the noise is not reduced, turn off the power of the video components when listening to AM broadcasts.

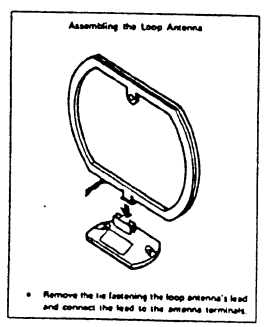
CONNECTIONS



ANTENNA INSTALLATION

- **FM ANTENNA**
  The supplied indoor FM antenna can be used inside wooden houses for receiving local FM stations and other strong FM signals. Stretch out the ends of the antenna and mount the antenna on the wall or ceiling where optimum reception is achieved. A indoor FM antennas may not consistently ensure stable reception, due to environment changes. In such cases, the indoor FM antenna should only be used temporarily until an outdoor FM antenna has been installed.
  When connecting an outdoor FM antenna, the use of 75 ohm coaxial cable (3C-2V, 5C-2V) is strongly recommended.

- **AM ANTENNA**
  Attach the supplied AM loop antenna even when using an outdoor AM antenna.
  Connect the leads to the AM and GND terminals.
  Also use the AM terminals for connecting an outdoor AM antenna (when making such a connection do not disconnect the AM loop antenna.)
  Adjust the loop antenna to obtain optimum reception. Where broadcast stations are distant and only weak signals are received, or where signals are blocked, it is best to install an outdoor AM antenna.


Assembling the Loop Antenna
• Remove the tie fastening the loop antenna's lead and connect the lead to the antenna terminals.

SPEAKER CONNECTION
Confirm polarity (+, –) and left and right channels (L, R). Connect the speaker pairs to the SPEAKER terminals A or B on the back panel. Connections must be made with power cord disconnected.

Preparing the cord

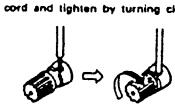
1. Peel off the sheath.

2. Twist the wires.

Connecting the front speaker terminals

1. Loosen by turning counterclockwise.

2. Insert the cord and tighten by turning clockwise.



Notes on Connection
- Do not plug the power cord into the AC wall outlet until all connections have been completed.
- Make sure channels are correctly connected. Connect Left channels to Left channels and Right channels to Right channels. Follow the color markings of plugs and terminals to make sure mistakes are not made.
- Connect all pin-plugs securely, pushing them completly into the jacks. Incomplete connections will cause noise generation.
- Binding the connection cables to power cords, or running such cables close to power supply transformers will cause humming or noise, and should thus be avoided.

Notes:
- Do not connect two FM antennas simultaneously.
- Even if an external AM antenna is used, do not disconnect the AM loop antenna.
- Make sure AM loop antenna lead terminals do not touch metal parts of the panel.

CAUTION

Protective Circuit
This set is equipped with a high speed protective circuit. This circuit protects the internal circuitry from damage due to large currents flowing when the speaker jacks are not completely connected or when an output is generated by a short circuit.
This protective circuit's operation cuts off the output to the speakers. In such a case, be sure to turn the power to the set off and check the connections to the speakers. Then turn the power on again. After muting for several seconds, the set will operate normally.

Using the Various Functions

1. **Presetting stations in the memory**
   The frequency and the name of the radio station (including names which you have input yourself), are also stored in the memory.
   In particular, the various RDS functions can be used effectively when RDS stations are stored in the memory.
   How to preset the memory
   Press the MEMORY button ●. The "MEMO" indicator on the display ● lights. Next, use SHIFT/PTY button ● to select the memory block A, B, C, D or E. Now press the PRESET UP or DOWN button ● to specify the preset channel number, and then press the MEMORY button ● to store the station in the memory.
   The preset channel numbers for the different memory blocks are as follows.
   Memory block A : 1 to 8
   Memory block B : 1 to 8
   Memory block C : 1 to 8
   Memory block D : 1 to 8
   Memory block E : 1 to 8

2. **Auto Memory (FM only)**
   The DRA-565RD/DRA-365RD is equipped with an auto memory function.
   Connect the antenna, set it so that stations can be received, then hold in the MEMORY button and press the POWER button to turn the power on. Stations for which the auto stop function operates are stored in the preset memory in the order A1 to A8, B1 to B8, and so on, through E8.
   Channel A1 is tuned in after the auto memory operation is completed.
   Using this function makes it possible to find out the overall reception conditions of the receivable stations. The memory can be used effectively by recalling the channels in the preset memory and replacing stations whose reception is poor with stations whose reception is good, using the procedure described in 1 above.

3. **Recalling preset stations**
   Use the SHIFT/PTY button ● to select memory block A, B, C, D or E, then press the PRESET UP or DOWN button ● to recall the station stored in the memory.
   If the PRESET UP or DOWN buttons are pressed without pressing the SHIFT/PTY button ●, the stations are recalled in the order A1 to A8, B1 to B8, and so on, through E8.

4. **RDS search (for FM only)**
   Use this function to automatically tune to stations offering Radio Data Service.
   This operation is also possible by pressing the TUNER button on the remote control unit once when the function is set to the TUNER mode.

Operation	Display
1. Press the RDS button ● once.	RDS SEARCH
2. Press the PRESET UP or DOWN button ●.	↓ "RDS SEARCH" flashes on the display. (Preset memory channels A1 to E8 are being searched.) If no RDS station is found with the above operation, all the reception bands are searched. The station name is displayed after searching stops.
3. Press the PRESET UP or DOWN button again while the RDS mark is flashing.	RDS search starts again.

   (If no other RDS station is found when all the frequencies are searched, "NO RDS" is displayed.)

5. **PTY search (for FM only)**
   Use this function to find stations broadcasting a designated type of programme type (PTY).
   This operation is also possible by pressing the TUNER button on the remote control unit twice when the function is set to the TUNER mode. Next, press the PANEL button on the remote control unit, select the PTY, then press the PRESET UP or DOWN buttons to start the PTY search function in the specified direction.

Operation	Display
1. Press the RDS button twice.	PTY SEARCH ↓ Programme type or PTY
2. Press the SHIFT/PTY button (Always do this to designate the programme type if "PTY" is displayed in step 1.)	Designated programme type
3. Press the PRESET UP or DOWN button ●.	"PTY SEARCH" flashes on the display. (Preset memory channels A1 to E8 are being searched.) If there is no station broadcasting the designated programme type with the above operation, all the reception bands are searched. The station name is displayed after searching stops.
4. Press the PRESET UP or DOWN button again while the PTY mark is flashing.	PTY search starts again.

   (If no other station broadcasting the designated programme type is found when all the frequencies are searched, "NO PROGRAMME" is displayed.)

• The programme types which can be displayed are listed on Page 13.

6. **TP Search (for FM only)**
   This function is used to find stations scheduled to broadcast traffic programmes (TP stations).
   This operation is also possible by pressing the TUNER button on the remote control unit three times when the function is set to the TUNER mode.

Operation	Display
1. Press the RDS button ● 3 times.	TP SEARCH ↓
2. Press the PRESET UP or DOWN button ●.	"TP SEARCH" flashes on the display. (Preset memory channels A1 to E8 are being searched.) If no TP station is found with the above operation, all the reception bands are searched. The station name is displayed after searching stops.
3. Press the PRESET UP or DOWN button again while the TP mark is flashing.	TP search starts again.

   (If no other TP station is found when all the frequencies are searched, "NO PROGRAMME" is displayed.)

7. **Writing station names**
   You can write in station names yourself.
   (Up to 8 characters)
   (Refer to the table of characters on page 13.)

Operation	Display
1. Press the RDS button 4 times.	First character flashes.
2. Use the TUNING and DOWN buttons ● to select the desired characters.	First letter flashes.
3. Use the SHIFT/PTY button ● to move to the next place.	Specified place flashes.
4. After writing the entire station name, store it in the memory. (Refer to page 8.)	

RDS Emergency Alarm
"ALARM" will flash on the display when the unit receives the Emergency Programme Type Code (PTY31) from an RDS station.
This feature may not operate properly if the signal from the RDS station is too weak or is subjected to interference.
It is not possible to select the "ALARM" display from the PTY search mode.

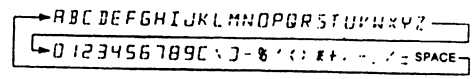
8. **Clearing station names**
   1. Recall the station name you want to clear.
   2. Press the RDS button 4 times until the character at the first place flashes.
   3. Then press the SHIFT/PTY button for at least 2 seconds. The current station name will then be cleared.

Note: Station names must be stored in a preset memory to be retained. If the power is turned off, or if the band (AM/FM) is changed, the station name will be lost. Be sure to store the entered station name in a Preset Memory before changing the band or turning the power switch OFF.

• The following programme types can be designated:

NEWS	NEWS	M.O.R MUSIC	M.O.R. MUSIC
AFFAIRS	AFFAIRS	L-CLASSICS	LIGHT CLASSICS
INFORMATION	INFORMATION	S-CLASSICS	SERIOUS CLASSICS
SPORT	SPORT	OTHER MUSIC	OTHER MUSIC
EDUCATION	EDUCATION		
DRAMA	DRAMA		
CULTURE	CULTURE		
SCIENCE	SCIENCE		
VARIED	VARIED		
POP MUSIC	POP MUSIC		
ROCK MUSIC	ROCK MUSIC		

Table of characters
The characters are input in the order shown to the right. Use the TUNING buttons ● to select the desired characters.



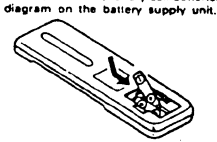
PLAYBACK USING THE REMOTE CONTROL

The accessory RC-174 remote control unit is used to control the RECEIVER from a distance.

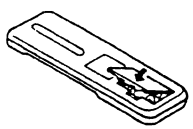
(1) **Inserting the dry cell batteries**

1 Remove the rear cover on the remote control unit.

2 Insert two size "AA" (R6) dry cell batteries as shown in the diagram on the battery supply unit.



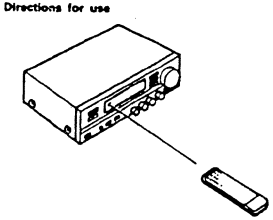
3 Replace the rear cover.



Notes on Use of the Batteries

- The remote control unit uses size "AA" (R6) dry cell batteries.
- The batteries will need to be replaced approximately once a year. This will depend upon how often the remote control is used.
- If, in less than a year from the time new batteries were inserted, the remote control fails to operate the receiver from a near-by position, it is time to replace the batteries.
- Insert the batteries properly, following the diagram on the remote control battery supply unit, and making sure to align the plus and minus sides of each battery.
- Batteries are prone to damage and leakage. Therefore:
  - Do not combine new batteries with used ones.
  - Do not combine different types of batteries.
  - Do not jumper the opposite poles of the batteries, expose them to heat or break them open, or put them into open fire.
- When the remote control is not to be used for a long period of time, remove the batteries from the unit.
- If the batteries have leaked, remove any battery fluid from the inside of the battery supply unit by wiping it out thoroughly, and insert new batteries.

(2) **Directions for use**



- Operate the remote control unit while pointing it towards the remote control sensor on the receiver as shown in the diagram left.
- The remote control unit can be used at distances up to about 8 meters in a straight line from the receiver. This distance will decrease if there are obstructions blocking the infra-red light transmission or if the remote control unit is not directed straight at the receiver.

Note on Operation

- Do not press the operating buttons on the receiver and the remote control unit at the same time. This will cause misoperation.
- Operation of the remote control unit will become less effective or erratic if the infrared remote control sensor on the receiver is exposed to strong light or if there are obstructions between the remote control unit and the sensor.
- In case you operate your VCR, TV or other components by remote control, do not operate buttons on two different remote control units at the same time. This will cause mis-operation.

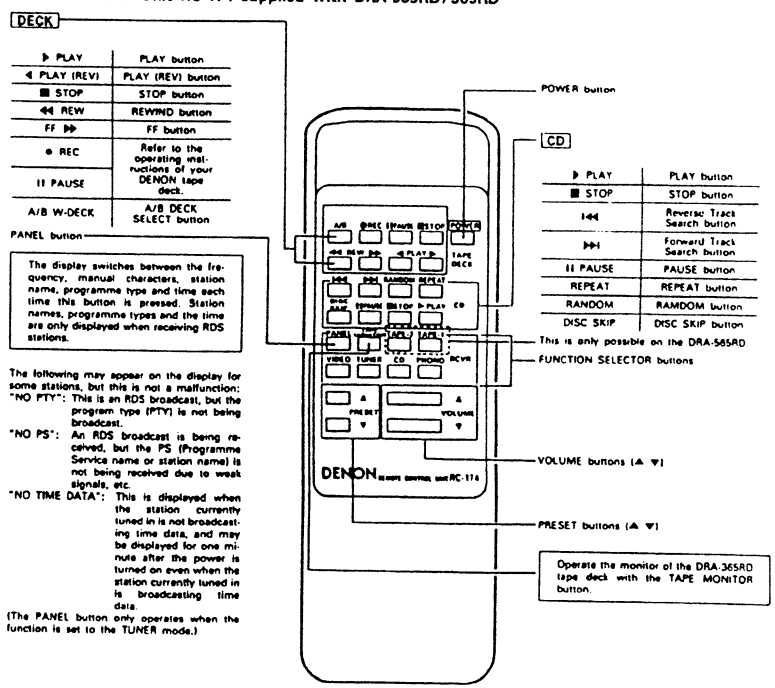
Besides being able to operate the DRA-565RD/365RD receiver with this remote control unit, you can also operate a DENON cassette deck and CD player from this handy full-system remote control unit.

Remote Control Section

Full-system Remote Control Unit

The full-system remote control unit operates all major functions of the receiver such as function switching, volume control, and preset station selection. But that's not all! The same control pad can also control the major functions of a DENON CD player and cassette deck to create a remarkably ergonomic and versatile DENON system with all the quality sound reproduction that the devoted audiophile expects.

Remote Control Unit RC-174 supplied with DRA-565RD/365RD


DECK
▶ PLAY — PLAY button
◀ PLAY (REV) — PLAY (REV) button
■ STOP — STOP button
◀◀ REW — REWIND button
FF ▶▶ — FF button
● REC — Refer to the operating instructions of your DENON tape deck.
II PAUSE
A/B W-DECK — A/B DECK SELECT button
PANEL button
The display switches between the frequency, manual characters, station name, programme type and time each time this button is pressed. Station names, programme types and the time are only displayed when receiving RDS stations.
The following may appear on the display for some stations, but this is not a malfunction:
"NO PTY": This is an RDS broadcast, but the program type (PTY) is not being broadcast.
"NO PS": An RDS broadcast is being received, but the PS (Programme Service name or station name) is not being received due to weak signals, etc.
"NO TIME DATA": This is displayed when the station currently tuned in is not broadcasting time data, and may be displayed for one minute after the power is turned on even when the station currently tuned in is broadcasting time data.
(The PANEL button only operates when the function is set to the TUNER mode.)
POWER button
CD
▶ PLAY — PLAY button
■ STOP — STOP button
⏮ — Reverse Track Search button
⏭ — Forward Track Search button
II PAUSE — PAUSE button
REPEAT — REPEAT button
RANDOM — RANDOM button
DISC SKIP — DISC SKIP button
This is only possible on the DRA-565RD
FUNCTION SELECTOR buttons
VOLUME buttons (▲ ▼)
PRESET buttons (▲ ▼)
Operate the monitor of the DRA-365RD tape deck with the TAPE MONITOR button.
DENON RC-174

- The RC-174 Remote Control Unit can control CD players and cassette decks made by DENON.
- Note that operation may not be possible for some models.
- Buttons are conveniently separated into groups, each group controlling one specific component. The groups are RECEIVER, CD and DECK.

For details on operating other components, refer to the instruction manuals for the CD player and/or cassette deck.

CAUTION:

- If the power is turned off with the remote control unit, the receiver is switched to the power stand-by state. If you are to be absent for a long period of time, be sure to turn the power off using the POWER switch on the receiver.
- A part of 1st digit of fluorescent display light while the receiver is in the power stand-by state.
- You may experience erratic operation of the remote control unit if it is operated in fluorescent light and direct sunlight, in particular if this light strikes the remote control sensor on the receiver. However, this is not a malfunction, and if this should happen, protect the sensor against such light.

TROUBLESHOOTING

1. Have all connections been made PROPERLY?
2. Have you followed all operational instructions correctly?
3. Check speaker and the turntable systems for proper operation.

When your unit does not seem to be operating correctly, first check the items in the following table. If the symptom does not correspond to any of the problems as shown below, turn off the power sources immediately and contact your DENON dealer.

Problem	Cause	Remedy
FM AND AM RECEPTION		
Radio program can not be received.	• Antenna connection is wrong. • A signal strength is weak.	• Check the connection. • Check the antenna installation.
Noise is reproduced.	• A signal strength is weak. • Automobile ignition noise interferes with reception. • Other electrical equipment interferes with reception.	• Install an outdoor antenna. • Keep the antenna away from the street. • Keep the equipment away from this set, or turn off the power of the other equipment.
The preset frequencies are erased.	• The memory back-up term (about 1 month) passed.	• Preset again.
In automatic tuning, the frequency doesn't stop at the radio station.	• A signal strength is weak.	• Use manual tuning
In automatic tuning, it stops at the one step lower or higher frequency than the radio station.	• Noise or strong signal strength is received.	• Use manual tuning for optimum reception.
PLAYBACK OF THE AUDIO EQUIPMENTS		
No sound is produced with power on.	• Input and speaker cords connection are wrong. • Speaker switch is off. • The INPUT SELECTOR buttons are in wrong position. • The protective circuit is operating. • The fuse has blown out.	• Check the connection. • Turn on speaker switch. • Check these position. • Turn the power off once, check the connections to the speakers, then turn the power on again. • Ask your dealer, or the nearest DENON representative.
Audible hum when playing records.	• The input and grounding cords connection of the turntable are wrong. • The cords connection of the cartridge are wrong. • The interference from the nearby TV or radio transmission antenna.	• Check the connection. • Check the connection. • Ask your dealer, or the nearest DENON respresentative.
Howling is produced when the volume control is turned up too high while playing records.	• The vibrations and sounds transmit from the speakers to the turntable.	• Insulate the vibrations, or keep the speakers away from the turntable.
Cracking noise is produced when playing records.	• The record is stained with the dust. • The stylus tip of the cartridge is stained with the dust. • The cartridge is defective.	• Clean the record. • Clean the stylus tip. • Try the other cartridge.

SPECIFICATIONS

AMPLIFIER SECTION

Continuous Power Output (DIN):	DRA-565RD: 80 W + 80 W (4 ohms, 1 kHz) DRA-365RD: 62 W + 62 W (4 ohms, 1 kHz)
Power Bandwidth (IHF):	10 Hz ~ 40 kHz (T.H.D. 0.15% both channels driven into 8 ohms)
Total Harmonic Distortion:	0.03% (–3 dB at rated output, 8 ohms)
Frequency Response:	PHONO RIAA Standard Curve (Recording Output) MM 20 Hz ~ 20 kHz ±0.5 dB CD, VIDEO, 20 Hz ~ 50 kHz ±1.5 dB (at 1W) TAPE-1, TAPE-2 (DRA-565RD) TAPE (DRA-365RD)
Input Sensitivity and Impedance:	PHONO MM 2.5 mV 47 k ohms CD, VIDEO, 150 mV 25 k ohms TAPE-1, TAPE-2 (DRA-565RD) TAPE (DRA-365RD)
Maximum Input Level (at 1 kHz):	PHONO MM 120 mV
Signal to Noise Ratio (IHF-A):	PHONO MM 78 dB (at 5.0 mV input) CD, VIDEO, 96 dB TAPE-1, TAPE-2 (DRA-565RD) TAPE (DRA-365RD)
Tone Controls:	BASS ±10 dB at 100 Hz TREBLE ±10 dB at 10 kHz
Loudness, Control Effect:	VARIABLE LOUDNESS at maximum position 50 Hz/10 kHz, +10 dB/+8 dB
PRE-OUT terminals Rated output: (DRA-565RD only)	2 V (at 100 kohm load)

TUNER SECTION

[FM] (note: µV at 75 ohms, 0 dBf = 1 × 10^{-15} W)	
Receiving Range:	87.5 ~ 108 MHz
Usable Sensitivity:	0.9 µV (10.3 dBf)
Signal to Noise Ratio (IHF-A):	MONO 82 dB STEREO 78 dB
Image Rejection:	85 dB
Selectivity (±300 kHz):	55 dB
Frequency Response:	30 Hz ~ 15 kHz $^{+0.2}_{-1.5}$ dB
Stereo Separation (at 1 kHz):	40 dB
[AM]	
Receiving Range:	522 ~ 1611 kHz
Usable Sensitivity:	18 µV
Signal to Noise Ratio:	55 dB
General	
Power Supply:	AC 230V 50 Hz
Power Consumption:	145 W (DRA-565RD) 120 W (DRA-365RD)
Power Outlets:	SWITCHED 100 W
Dimensions:	434 mm (W) × 130 mm (H) × 312 mm (D) (DRA-565RD) 434 mm (W) × 120 mm (H) × 312 mm (D) (DRA-365RD)
Weight:	7.2 kg (DRA-565RD) 6.0 kg (DRA-365RD)
REMOTE CONTROL UNIT	RC-174
Remote control system:	Infrared pulse system
Power supply:	3V DC Two size "AA" (R6) dry cell batteries
External dimensions:	60 mm W × 175 mm H × 18 mm D
Weight:	120 g (Includes batteries)

Design and specifications are subject to change without prior notice.